

LEONIDOV, V.I.; ZHIGACH, K.F.; MUKHIN, L.K.

Effect of pressure and temperature on the interaction of flushing
fluids and clay rocks. Izv.vys.ucheb. zav.;neft' i gaz 5 no.5:
35-38 '62. (MIRA 16:5)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
imeni akademika I.M.Gubkina.
(Clay) (Oil well drilling fluids)

LOPATIN, V.A.; MUKHIN, L.K.; ZHIGACH, K.F.

Influence of circulating fluids on the stability of swelling clay.
Izv.vys.ucheb.zav.; neft' i gaz 6 no.11:29-34 '63. (MIRA 17:9)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
im. akad.I.M.Gubkina.

LOPATIN, V.A.; MUKEIN, I.K.

Analyzing complications in case of drilling of deep wells in un-
stable clay material. Burenie no.7:5-7 '64. (MIRA 18:5)

I. Moskovskiy ordena Trudovogo Krasnogo Znameni Institut
neftekhimicheskoy i gazovoy promyshlennosti im. akademika Gubkina.

LOPATIN, V.A.; MUKHIN, L.K.; SHIBAEV, K.F.

Effect of the hydrostatic pressure on the stability of clay material in the drilling of wells. Izv. vuz. zav.; nafta i gaz / no. 27-32 '64. (MIRA 17:9)

1. Moskovskiy inst. tekhnicheskoy i gazonoy promyslosti imeni akademika Gubkina.

LOPATIN, V.A.; MUKHIN, L.K.; ZHIGACH, K.F.

Stability of clay rocks in the drilling of deep wells with high
bottom temperatures. Izv. vys. ucheb. zav.; neft' i gaz 7 no.7:
23-28 '64. (MIRA 17:9)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
im. akademika T.M. Gubkina.

ANGELOPULO, O.K.; MUKHIN, L.K.

Flow properties of clay muds. Izv. vys. ucheb. zav.; neft'
i gaz 7 no.11:20-24 '64. (MIRA 18:11)

1. Moskovskiy in-titut neftekhimicheskoy i gazovoy promyshlen-
nosti im. akad. I.M. Gubkina.

24.1800

27838
S/032/61/027/010/015/022
B104/B102

AUTHORS: Mukhin, L. M., and Konoplenko, V. P.

TITLE: A method of determining the elastic constants at high temperatures

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 10, 1961, 1294-1296

TEXT: On the last Vsesoyuznaya nauchno-tehnicheskaya konferentsiya po primeneniyu ul'trazvuka v promyshlennosti (All-Union Scientific and Technical Conference on the Use of Ultrasonic in Industry), Moscow, 1960, B. A. Kalugin and I. S. Mikhaylov had suggested a method of finding the elastic constants at high temperatures. This method is based on determining the velocity of elastic waves in an unevenly heated test body. In the temperature range between 700 and 900°C, this method involves an error of about 5 - 8%. The authors describe a simple technique of finding the elastic constants of uniformly heated test body. The velocity of ultrasonic waves in a test body is determined by means of the experimental arrangement illustrated in the figure. A B4-7M (V4-7I) flaw detector

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X

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A method of determining the elastic ...

was used as the source of ultrasonic. On its screen one could read the time difference of the ultrasonic pulses reflected from two sites, A and B, in the test body. The velocities of the longitudinal and transverse oscillations were determined. From these, the elastic constants were calculated. It was possible to carry out the measurements up to 900°C. The results are listed in the table. The authors were given valuable advice by Yu. V. Lange and G. V. Prokhorov. There are 1 figure, 1 table, and 9 references: 5 Soviet and 4 non-Soviet. The references to English-language publications read as follows: J. B. Wachtman a. D. G. Lam., J. of the am. ceramic. soc., 5 (1959); T. A. Willmore et al. J. of the am. ceramic soc., v. 37, 10 (1954); Paris, Creen a. Smith, J. of appl. phys., v. 23, no. 1 (1952); H. J. Mc Skimin, JASA, 27, no. 3, p. 287 (1959).

Fig. Experimental setup. Legend: (1) test body, (2) crucible furnace, (3) quartz, emitting and receiving longitudinal waves, (4) quartz, emitting and receiving transverse oscillations, (5) thermocouples, (6) cooling, (7) pickup of flaw detector.

Table. Values of the Young's modulus E, the rigidity modulus G, and of the Poisson's ratio for steel 20 at various temperatures.

Card 2/3

L 49019-65 EWT(m)/EPF(c)/EPF(n)-2 Pr-4/Pu-4 GG

UR/0058/65/000/003/E040/E040

ACCESSION NR: AR5012292

18

SOURCE: Ref. zh. Fizika, Abs. 3E280

B

AUTHOR: Mukhin, L. M.

TITLE: Some prospects in the use of a pulsed method for determining elastic constants

CITED SOURCE: Sb. Primeneniye ul'traakust. k issled. veshchestva. Vyp. 18. M., 1963, 249-252

TOPIC TAGS: elastic constant, irradiation bombardment

19

TRANSLATION: A pulsed method is described for determining elastic constants, based on the measurement of ultrasonic wave propagation velocity in the investigated specimen. Velocity is computed from the difference of transition times of pulses reflected from the end of a specimen and a mark plotted at a predetermined distance from the end. The method has a number of advantages over resonance methods, particularly during investigation of properties of materials exposed to radiation in a reactor: 1) it allows reliable temperature control of the effective section of a specimen, 2) all elastic constants of a specimen can be determined simultaneously.

Card 1/2

L-49G10-65
ACCESSION NR: AR5012292

3) gauges can be taken out of the active zone, 4) the kinetics of radiation can be investigated. The method was tested with graphite and copper specimens in a water-water reactor. O. Abramov

SUB CODE: GP, NP

ENCL: 00

JP
Card 2/2

MUKHIN, L.M. (Moskva); YAKOVLEV, G.V. (Moskva)

Use of the method of two reflected pulses in measuring the elastic constants of solids at elevated temperatures. Akust.zhur. 10 no.4:
483-485 '64. (MIRA 18:2)

L 12L13-65 EWP(s)/EWT(m)/EWP(w)/EPF(n)-2/EWA(d)/EPR/EWP(t)/EWP(b) Fq-4/Ps-4/
Fu-4 ASD(d)/ASD(f)-2 JD/JG/AT/MH

8/0032/64/030/011/1379/1381

ACCESSION NR: AF4048369

AUTHOR: Mukhin, L. M.

TITLE: Determining the elastic properties of metals and carbides by ultrasonic pulses ⑤
18 21 18

SOURCE: Zavodskaya laboratoriya, v. 30, no. 11, 1964, 1379-1381

TOPIC TAGS: beryllium, carbide, elastic property

ABSTRACT: The author has used ultrasonic pulses to measure the elastic constants of small carbide specimens (of several metals: Zr, Ti, Co, Fe, and Ni). He has also measured the elastic properties of beryllium through a wide temperature range (-180 to +1030°C). Metallic beryllium was studied by a technique previously described by L. M. Mukhin and V. P. Konoplenko (Zavodskaya laboratoriya, XXVII, 10, 1961). Samples were 30 mm in diameter and 200-250 mm in length, and the accuracy of determination was ~0.05%. A sharp drop in the Poisson ratio was observed at ~600°C. This corresponds to a change in elastic properties (of relative elongation and of the coefficient of linear expansion) at this temperature. Disks of zinc and titanium carbide were measured at room temperature. The disks were 18 mm in diameter and 4 to 7 mm in thickness. Two quartz piezoelectric elements were used.

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L 12413-65

ACCESSION NR: AP4048369

one as the pulse generator, the other as the detector. The time of pulse passage through the acoustical delay unit was first measured. The specimen with a piezo-electric quartz crystal was then attached to one end of the delay element and the time of pulse passage through the combination was then measured. The difference in the two times gives the desired passage time in the sample; from this (and the dimensions of the specimen) the elastic moduli may be found. The setup is shown diagrammatically in Fig. 1 and the results are shown in Table 1 on the Enclosures. Orig. art. has: 1 figure and 2 tables.

ASSOCIATION: none

SUBMITTED: OO

ENCL: 02

SUB CODE: MM, SS

NO REF SOV: 002

OTHER: 000

Card 2/4

L 12413-65
ACCESSION NR: AP4048369

ENCLOSURE: 01

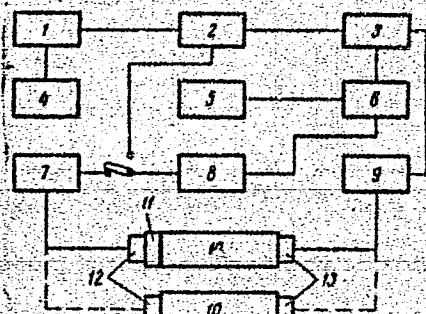


Fig. 1. Schematic setup for determining sound velocity in small samples.
1 - GSS generator; 2 - pulse accentuator; 3 - forming stage of the starting signal; 4 - electronic frequency meter; 5 - PS-10 000 scaler; 6 - forming stage of the retarded signal; 7 - UP-4 amplifier; 8 - Si-8 oscilloscope; 9 - GNI-1 generator; 10 - acoustical delay element; 11 - detecting piezoelectric element; 12 - transmitting piezoelectric element.

Card 3/4

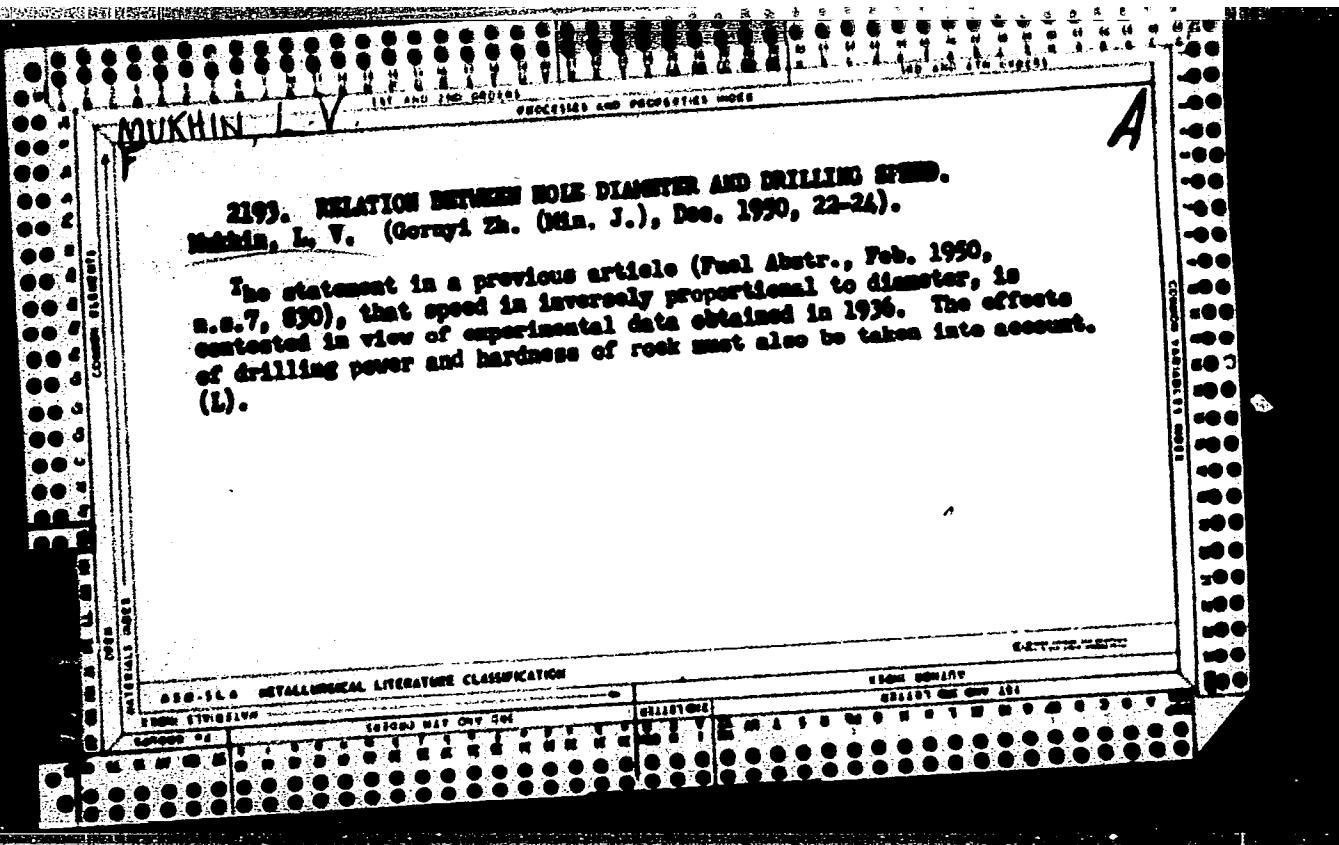
L 12413-65
ACCESSION NR: AP4048369

ENCLOSURE: 02

Table. 1. Elastic properties of carbides

Property	ZrC	TiC + Co	TiC + Fe	TiC + NiCr
E, kg/mm ²	33,600	26,300	31,000	26,300
G, kg/mm ²	14,200	9,800	11,800	9,900
μ	0,2	0,34	0,32	0,33

Card 4/4



MINDELI, E.O., kand.tekhn.nauk; KUSOV, N.F., kand.tekhn.nauk; ODNOPOZOZOV,
Z.A., gornyy inzhener; RABICHEV, A.R., gornyy inzhener; MAMONOV, V.V.,
gornyy inzhener; GROZIN, V.M., gornyy inzhener; OSNOVSKIY, P.V.,
gornyy inzhener; VORONIN, V.S., inzhener-shakhtostroitel';
MUKHIN, L.V., gornyy inzhener

Discussion on N.V. Stadnichenko, V.T. Nazarov's article

"Advantageous diameter size for boreholes." Ugol' 35 no. 4:31-35
Ap '60. (MIRA 14:4)

1. Kombinat Rostovugol' (for Rabichev, Mamonov & Grozin). 2.
Rostovskiy sovnarkhoz (for Osnovskiy & Voronin).
(Blasting) (Boring) (Stadnichenko, N.V.) (Nazarov, V.T.)

MUKHIN, M., general-major aviatsii; ARMEYEV, G., inzh.-polkovnik

Save fuel and take care of equipment. Av. i kosm. 47 no. 65-66 Je
'65. (MIRA 18:5)

MURKIN, M. A.

VEITSMAN, L.N.; MURKIN, M.A.; STIMBLOVSKIY, A.P.

Characteristics of incubation and post-embryonic viability of guinea
fowl. Trudy Inst.gen. no.20:257-264 '53. (NLR 7:1)
(Guinea fowl)

MUKHIN, M.G., kand.tekhn.nauk, dotsent

Selecting type and number of forms for the manufacture of reinforced concrete products. Trudy G ISI no.43:41-46 '63. (MIRA 17:4)

MUKHIN, M.K.

New instruments for the ligature of hemorrhaging vessels during tonsillectomy and the methodology of their use. Zhur. ush. nos. i gorl. bol. 23 no.2:83-84 Mr-Ap'63. (MIRA 16:8)

1. Iz otdeleniya bolezney ukha, gorla i nosa Shcheglovskoy bol-nitsy g. Makeyevki (glavnyy vrach - Ye.P.Konoplya).
(TONSILS—SURGERY) (LIGATION (SURGERY))

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135520018-5

MUKHIN, M. V.

"Plastic Surgery for Mandibular Contractures Caused by Gunshot Wounds," 1948

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135520018-5"

MUKHIN, M. V.

PAS/49178

USER/Medicine - Face, Surgery
Medicine - Wounds, Gunshot

Mar/Apr 46

"Bacteriological Study of Facial Scars Caused by
Gunshot Wounds," M. V. Mukhin, Dr Med Sci, Sverdlovsk
24 pp

"Stomatologiya" No 2

Biopsy of deep traumatic tissue obtained during
plastic surgery operations. Table shows time since
wound was inflicted, aerobic and anaerobic bacteria
present, and how surgical incision healed. In most
cases, staphylococci and streptococci, usually
associated in pyogenic process in gunshot wounds,
5/49ITE

USER/Medicine - Face, Surgery (Contd) Mar/Apr 46

USER/Medicine - Face, Surgery (Contd) Mar/Apr 46
were present. However, healing of surgical in-
cision was usually satisfactory.

3/49ITE

MUKHIN, MV.

Method of surgical therapy of grave defects of the nose. Vest.
otorinolar. No.3:64-67 May-June 50. (CLML 19:4)

1. Of Sverdlovsk Institute of Restorative Surgery, Traumatology, and
Orthopedics (Director -- Prof. F.R.Bogdanov)

MURKIN, M. V.

Total plastic surgery of the penis and urethra by means of two
Filatov's flaps. Vest. khir. 70:3, 1950. p. 31-5

1. Of the Faculty Surgical Clinic of Ivanovo Medical Institute
(Head—S. A. Yakobson).

CIML 19, 5, Nov., 1950

SESYUNINA, L.I.; MUKHIN, M.V., professor, zaveduyushchiy; BOGDANOV, F.R., professor, chlen-korrespondent Akademii meditsinskikh nauk SSSR, nauchnyy rukovoditel', direktor.

Use of End'ko's apparatus in maxillofacial surgery. Stomatologija no.4:
47-48 Jl-Ag '53. (Mild 6:9)

1. Chelyustno-litsevoye otdeleniye Sverdlovskogo instituta vosstanovitel'noy khirurgii, travmatologii i ortopedii (for Mukhin and Sesyunina). 2. Sverdlovskiy institut vosstanovitel'noy khirurgii, travmatologii i ortopedii (for Bogdanov). (Jaws--Surgery) (Face--Surgery)
(Surgical instruments and apparatus)

4.000, 00 1953 RDP 00513 Vol. 11 Nov 1953

7532. **MUKHIN M. V.** and **SHCHIPATCHEVA V.I.** *Plexiglas in surgical repair of the face (Russian text) STOMATOLOGIJA 1953, 5 (26-28)

The use of prostheses made of plexiglas was studied experimentally and clinically and the following conclusions were reached: These prostheses do not give rise to inflammatory reactions and have no harmful action on the organism. A connective tissue capsule is formed round the prosthesis, and prostheses of this material are not affected by the vital action of the tissues, nor do they lose their shape. Plexiglas is not radiopaque and is a poor conductor of heat and electricity, so that no danger is involved by heat or electrical treatment during the postoperative period. Plexiglas can be readily worked and moulded to take the form required by the individual prostheses. Sterilization causes no loss of shape. Teneff - Turin

MUKHIN, M.V.

Muscular plastic surgery in stubborn facial paralysis. Sovet. med. 17
no.6:26-28 June 1953. (CLML 24:5)

1. Of Sverdlovsk Institute of Restorative Surgery, Traumatology and
Orthopedics (Director and Scientific Supervisor -- Prof. F. R. Bogdanov,
Corresponding Member AMS USSR).

MUKHIN, M.V., professor.

Plastic surgery of the helix. Vest.oto-rin. 16 no.1:44-45 Ja-⁷
'54. (MIRA 7:3)

1. Iz chelyustno-litsevogo otdeleniya Sverdlovskogo instituta
vosstanovitel'noy khirurgii, travmatologii i ortopedii.
(Ear--Surgery)

MUKHIN, M.V., professor.

Durable osteosynthesis in pseudarthrosis and defects of bones
in the forearm. Vest.khir. 74 no.1:40-45 Ja-P '54. (MLRA 7:2)

1. Iz Sverdlovskogo instituta vosstanovitel'noy khirurgii i travmatologii (direktor i nauchnyy rukovoditel' - professor F.R.Bogdanov).
(Bones--Wounds and injuries)

ПУДА КЛИМОВ

KLIMOV, K.M., professor, laureat Stalinskoy premii; SMIRNOV,Ye. professor;
KIRILLOV, B.K., professor, FAYVISHENKO, E.L.. professor, MUKHIN, N.V.
professor; BAL', professor, MORENBERG-CHARKVIANI, A.Ye., doktor meditsinskikh nauk;
SAKHAROV, M.I., doktor meditsinskikh nauk; MAKAROV,
M.P., dotsent; BUTIKOVA, N.I., dotsent; SHILOMOVA, T.P., kandidat
meditsinskikh nauk; RAKITINA, L.N., kandidat meditsinskikh nauk;
KAMPEL'MAKHER, Ya.A., kandidat meditsinskikh nauk.

Forty years of Professor A.T.Lidskii's scientific, medical and
pedagogical activities. Khirurgia no.6:82-83 Je '55 (MIRA 8:10)
(LIDSKEI, ARKADII TIMOFEEVICH)

MUKHIN, M.V., professor

Progress in plastic surgery of the face and prospects for its development. Vest.khir. '77 no.11:107-119 N '56. (MLRA 10:1)

1. Iz knfedy chalyustno-litsevoy khirurgii i stomatologii (nach. - prof. M.V.Mukhin) Voyennno-Meditsinskoy ordena Lenina akademii im. S.M.Kirova.

(Surgery, PLASTIC
face, progr., review)

(FACIAL, surg.
plastic, progr., review)

MUKHIN, N.V., prof.; STEPANOV, A.I.

Using a steel frame with pins for fixing prosthesis to a toothless lower jaw. Stomatologija 37 no.2:59-60 Mr-Apr '58. (MIRA 11:5)

1. Iz kafedry chelyustno-litsevoy khirurgii i stomatologii (nachal'nik-prof. N.V. Mukhin) Voyenno-meditsinskoy ordena Lenina akademii im. S.M. Kirova.
(DENTAL PROSTHESIS)

MUKHIN, M.V., prof.

Method for plastic surgery using Filatov's lap. Ortop., travm. i
protek. 20 no.11:83-88 N '59. (MIRA 13:4)

1. Iz kafedry chelyustno-litsevoy khirurgii i stomatologii (nachal'-
nik - prof. M.V. Mukhin) Voyenno-meditsinskoy ordena Lenina akademii
im. S.M. Kirova.
(SKIN TRANSPLANTATION)

MUKHIN, M.V., prof. (Leningrad, ul.Smirnova, d.10-a, kv.25)

Modern methods of treatment for fractures of the lower jaw.
Vest.khir. 83 no.7:53-62 Jl '59. (MIR 12:11)

1. Iz kafedry chelyustno-litsevoy khirurgii i stomatologii
(nach. - prof.M.V.Mukhin) Vojenno-meditsinskoy ordena Lenina
akademii im. S.M.Kirova.
(JAWS--FRACTURE)

Mukhin, M. V. (Prof.)--Leningrad

"The Clinical Picture and Treatment of Facial Burns."

report submitted for the 27th Congress of Surgeons of the USSR, Moscow, 23-28 May 1960.

MUKHIN, Mikhail Vladimirovich; BALON, L.R., red.; CHUNAYEVA, Z.V.,
tekhn. red.

[Treatment of head, face, and neck burns and their after-
effects] Lechenie ozhogov golovy, litsa, shei i ikh posled-
stvii. Leningrad, Medgiz, 1961. 162. p. (MIRA 16:2)
(BURNS AND SCALDS)

MUKHIN, M. V.

The treatment of sequelae of facial burns. Acta chir. plast. 3 no.4:
305-310 '61.

1. Department of Maxillofacial Surgery and Stomatology of the Kirov
Army Medical Academy, Holder of the Order of Lenin, Leningrad (U.S.S.R.)

(BURNS surg) (FACE wds & inj)

ZBARZH, Ya.M., prof.; MUKHIN, M.V., prof.; UVAROV, V.M., prof.;
KABAKOV, B.D., doktor med. nauk; ALEKSANDROV, N.M., dots.;
KLEMENTOV, A.V., dots.; FIALKOVSKIY, V.V., dots.;
MUKOVOZOV, I.N., kand. med. nauk; CHUPRINA, Yu.V., kand.
med. nauk; RYNKEVICH, V.S., red.; LEBEDEVA, G.T., tekhn.red.

[Operative maxillofacial surgery] Operativnaya cheliustno-
litsevaya khirurgiya. Leningrad, Medgiz, 1963. 358 p.
(MIRA 16:12)

(FACE—SURGERY) (JAWS—SURGERY) (NECK—SURGERY)

MUKHIN, M.V., prof. (Leningrad, K-9, ul.Smirnova, d.10-e, kv.25)
ALEKSANDROV, N.M., dotsent*

Hemangioma of the facial bones. Vest. khir. 91 no.2:13-14 5'63.
(MIR 1964)

Iz kafedry chekystno-litsevoy knirurgii (nachal'nik -prof.
M.V. Mukhin) Vozerno-metalskoy oriena akademik imeni
Kirova.

MUKHIN, M.V.

Reconstruction of eyebrows with a skin flap on a subcutaneous
vascular pedicle. Acta chir. plast. (Praha) 7 no.1:15-23 '65

1. Department of Facial-maxillary Surgery and Stomatology
(Head: Prof. M.V. Mukhin, M.D.) Kirov Military Medical Academy,
Holder of Lenin Order, Leningrad, J.S.S.R.

MUKHIN, Mikhail Vladimirovich; TANFIL'YEV, D.Ye., red.

[Postoperative period in patients with maxillofacial
lesions] Posleoperatsionnyi period u cheliustno-
litsevykh bol'nykh. Moskva, Meditsina, 1965. 190 p.
(MIRA 18:3)

SOOLYATTE, Valentina Ivanovna, kosmetolog; LIMBERG, Alla Aleksandrovna, kand.med.nauk, khirurg; MUKHIN, Mikhail Vladimirovich, doktor med. nauk, prof.; BONDARCHUK, Anton Vasil'yevich, neyrokhirurg, laureat Gosudarstvennoy premii, doktor med. nauk; KRIVOSHEYEV, Vasiliy Ivanovich, kand.med.nauk; KOZHEVNIKOV, Petr Vasil'yevich; ZYKOV, N.

A new type of plastic surgery. Nauka i zhizn' 30 no. 6:81-83
(MIRA 16:7)
Je '63.

1. Otdeleniye chelyustno-litsevoy khirurgii Leningradskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (for Limberg). 2. Voyenno-meditsinskaya akademiya imeni S.M. Kirova (for Mukhin). 3. Zaveduyushchiy khirurgicheskim otdeleniyem Leningradskoy kosmetcheskoy polikliniki (for Krivosheyev). 4. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Kozhevnikov).

MUKHIN, M.YE.

AGOSHKOV, M.I.; MUKHIN, M.Ye., kandidat tekhnicheskikh nauk.

Studying the strength of mine screening machines and selecting an
efficient design. Gor.shur. no.11:8 N '55. (NIRA 9:1)

1.Chlen korrespondent AN SSSR (for Agoshkov).
(Mining engineering) (Screens (Mining))

AGOSHKOV, M.I.; MUKHIN, N.Ye.

The study of ore yield at the screener gallery level and the
structural elements of screener hoppers. Trudy Inst.gor.dela
3:55-73 '56. (MLRA 9:8)

1. Chlen-korrespondent AN SSSR (for Agoshkov)
(Ore dressing--Models) (Screens (Mining))

127-58-1-8/28

AUTHORS: Mukhin, M.Ye., Candidate of Technical Sciences, Mamsurov, L.A., and Raflyenko, D.I., Mining Engineers

TITLE: Blasting of Ore by Small-Diameter Shot-Holes in the Mining of Veins (Otboyka rudy shputami malogo diametra pri razrabotke zhil)

PERIODICAL: Gornyy Zhurnal, 1956, Nr 1, pp 32-34 (USSR)

ABSTRACT: In order to establish the effectiveness of small-diameter shot-holes, the Institute of Mining of the USSR Academy of Sciences has carried out experiments in the mines of Primorye (Far East Coastal region), Kazakhstan, Dal'stroy and Severonikel' combine. Horizontal and sloping shot-holes were drilled with machines of various types, such as OM-506, PR-30k and TP-4, under various mining and geological conditions. The diameter of boring bits varied from 25 to 46 mm under the constant pressure of the compressed air, and durations of drilling and depth of shot-holes were measured. The results of the experiments are shown in tables and in a graph. The authors draw the following conclusions from the experiments: the speed of drilling

Card 1/2

127-5c-1-3/2a

Blasting of Ore by Small-Diameter Shot-Holes in the Mining of Veins

increased 1.7 to 2 times when single-chisel bits of 25 to 30 mm in diameter, instead of 46 mm, were used; the efficiency of the workers increased 1.5 times; compressed-air consumption was reduced by 40 to 70%, and consumption of explosives and hard alloys was also considerably reduced. It is necessary to manufacture high-power explosives of the rock ammonite type in cartridges, 22 mm in diameter. This will make it possible to use 26 mm outer-diameter shot-holes. A.F. Nazarchik, Z.A. Terpogosov and V.N. Chastukhin participated in these experiments.

The article contains 1 graph, 4 tables and 1 Soviet reference.

ASSOCIATION: Institut zornogo dela AN SSSR (Institute of Mining of the AS USSR)

AVAILABLE: Library of Congress

Card 2/2 1. Drilling machines-Applications 2. Mining engineering-USSR
 3. Explosives-Applications 4. Drilling machines-Equipment

Mukhin, M. Ye.

24(5) 1 book reference 207/984

Abstracts and summaries. Scientific sources data

Scientific problems. Comparative evaluation of methods of mining coal and mineral resources. Proceedings of the Institute of Mining Problems of the Academy of Sciences of the USSR. Moscow, 1979. 323 p. 3,000 rubles. Printed.

Mukhin, M. Ye. Author. Corresponding Member, USSR Academy of Sciences, M. Ye. Mukhin, T. F. Vasil'yev, Prof. M. P. Rabinov. Editor.

SUMMARY: This book is intended for coal and ore mining engineers, economists, the collection of articles reports on the results of research on scientific problems of mining coal and mineral resources conducted by members of the Institute of Mining Problems of the USSR Academy of Sciences and other organizations. The book contains 323 pages of original research papers, reports, and communications presented at the conference. The book is divided into several sections: "Comparative Evaluation of Methods of Coal Deposits Development," "Comparative Evaluation of Methods of Mineral Resources Development," "Comparative Evaluation of Methods of Ore Deposits Development," "Comparative Evaluation of Methods of Coal and Mineral Resources Processing," and "Comparative Evaluation of Methods of Coal and Mineral Resources Utilization." The book also contains a section on "New Developments in the Development of Coal and Mineral Resources." Part I is devoted to problems in the development of coal deposits, the distribution and mining of which is determined by the location of the deposit, the nature of the deposit, and the type of mining method used. In underground exploitation of deposits in the form of thin veins (thin veins, thin lenses, and thin seams), the open pit mining method of one or two levels is used. In the case of thick veins, the determination of size of ore reserves is a difficult problem. The book is dedicated to the development of new methods for determining the reserves of thick veins. Part II is devoted to problems in the development of mineral deposits, which are deposited in the form of veins, lenses, and seams. In underground exploitation of deposits in the form of veins, the open pit mining method of one or two levels is used. The book also contains a section on "New Developments in the Development of Coal and Mineral Resources." The articles are preceded by abstracts and followed by bibliographic references.

207/984 cont'd.

Scientific problems (Cont.)

207/984
 Sverdlov, B.N. Comparative Evaluation of Drilling Blast-holes with Heavy Cutters and Plastic Hammers in Underground Coal Mining 261
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 Grushko, V.P. and Yu.A. Melnikov. Stress Distribution in Gidrofilter 274
 Sloboda, M.P. and L.A. Mansurov. Study of the Basic Parameters of the Determination of the Minimum Lamp Size 281
 Sloboda, M.P. Determination of the Technique of Determining the Minimum Lamp Size 292
 Parfyonov, Yu.I. One Dressing and its Basic Indices 299
 Card 6/7

AGOSHKOV, M.I., prof.; MUKHIM, M.Ye., kand.tekhn.nauk; NAZARCHIK, A.F.,
kand.tekhn.nauk; MAMSUROV, L.A., gornyy inzh.; RAFIYENKO, D.I.,
gornyy inzh.; SERGEEV, A.A., otv.red.; SHAVOROSOV, A.Kh., red.
izd-va; BOLDYREVA, Z.A., tekhn.red.

[Systems of mining vein deposits] Sistemy razrabotki zhil'nykh
 mestorozhdenii. Pod obshchim red. M.I. Agoshkova. Moskva, Gos.
 nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 375 p.
(MIRA 14:1)

1. Chlen-korrespondent AN SSSR (for Agoshkov).
(Mining engineering) (Ore deposits)

MUKHIN, Mikhail Yegorovich; SHESTAKOV, Viktor Aleksandrovich;
YALIMOV, Nariman Galimovich; MOSINETS, V.N., otv. red.

[Underground mining systems in Kirghizia] Sistemy podzemnoi razrabotki na rudnikakh Kirgizii. Frunze, Izdvo "Ilim," 1965. 105 p.
(MIRA 18:6)

MUKHN, M.Ye., otv. red.; SHESTAKOV, V.A., red.; YALYMOV, N.G.,
red.; KUCHKIN, V.A., red.

[Improving systems of ore mining in unstable rock] S -
vershenstvovanie sistem razrabotki rudnykh mestorozhie-
niy v neustoichivykh porodakh. Frunze, "Ilim," 1965.
180 p. (MIRA 18:11)

1. Akademiya nauk Kirgizskoy SSR, Frunze. Institut fiziki
i mehaniki gornykh porod.

MUKHIN, N.A., aspirant

Method for histocautoradiography of dental pulp by using radioactive colloid gold (Au^{198}). Stomatologija 39 no.6:20-22 N-D '60.
(MIMA 15:1)

1. Iz kafedry terapevticheskoy stomatologii (zav. - dotsent T.T. Shkolyar) i kafedry patologicheskoy fiziologii (zav. - dotsent R.N. Shastin) Kalininskogo meditsinskogo instituta (dir. - dotsent A.N. Kushnev).

(GOLD ISOTOPES) (TEETH RADIOGRAPHY)
(HISTORADIOGRAPHY)

BELOUSOV, M.S., kand. ekon. nauk, dots.; VORONIN, M.G., kand. ekon. nauk; DUNDUKOV, G.S., kand. ekon. nauk, dots.; KAMYSHANOV, P.I., kand. ekon. nauk; KOLESOV, V.S.; KUPRIYENKO, A.N., kand. ekon. nauk; PEN'KOV, Ye.G., kand. ekon. nauk, dots.; SOLONEVICH, F.F., Prinimal uchastiye SMORODIN, M.B.; MUKHIN, N.A., retsenzent; FEDOTOV, G.N., retsenzent; STARCHAKOVA, I.I., red.; KIRAKOZOVA, N.Sh., red.; MEDRISH, D.M., tekhn. red.

[Accounting in commerce] Bukhgalterskii uchet v torgovle.
[By] M.S. Belousov i dr. Moskva, Gostorgizdat, 1963. 528 p.
(MIRA 17:1)

1. Prepodavateli kafedry bukhgalterskogo ucheta Moskovskogo instituta narodnogo khozyaystva im. G.V.Plekhanova (for Belousov, Voronin, Dundukov, Kamyshanov, Kolesov, Kupriyenko, Pen'kov, Solonevich). 2. Glavnnyy bukhgalter Soyuza potrebitel'skikh obshchestv RSFSR (for Fedotov).

MUKHIN, N.A., assistant

Characteristics of the incorporation and distribution of 35 S-labeled methionine and 32 P-labeled sodium phosphate in normal and inflamed dental pulp. Trudy KGM no.10:408-410 '63.

(MIRA 18:1)

1. Iz kafedry terapevticheskoy stomatologii (zav. kafedroy - dotsent T.T.Shkolyar) i kafedry patologicheskoy fiziology (zav. kafedroy dotsent R.N.Shastin) Kalininskogo gosudarstvennogo meditsinskogo instituta.

MUKHIN, N.D.

"Increasing the Species Quality of Barley Seed by Means of Interspecies Crossing", Agrobiol.

No. 5, 1949, Belorussian State Selection Sta, Eazer'he, Minsk Oblast.-c1949-.

MUKHIN, N.D., kandidat sel'skokhozyaistvennykh nauk, redaktor;
SVIETSKIY, Iu. I., kandidat sel'skokhozyaistvennykh nauk, redaktor;
LAZARENKO, E., redaktor; SPIRANOV, V., tekhnicheskiy redaktor

[Request for the certification of field crops in the White Russian
S.S.R.] Rekomendatsiya po sproshtenii polevyykh kul'tur BSSR.
Minsk, Gos. izd-vo BSSR, 1956. 299 p. (MLRA 10:4)
(White Russia--Field crops)

USSR/Cultivated Plants - General Problems

M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53503

Author : Mukhin, N.D.

Inst :

Title : Selection of Agricultural Crops in the German Democratic Republic.

Orig Pub : Seleksiya i semenovolstvo, 1956, No 3, 54-58

Abstract : In the GDR the work of selection and seed culture is handled by 8 institutes of the Academy of Agricultural Sciences, by 4 scientific research institutes of the university system, and also by a large number of selection stations. The article describes the successes of the selectors in bringing out high-yield varieties of wheat, barley and oats which produce 30-40 centners/hectares of grain, and also varieites of rye, corn and fodder grasses. --- V.M. Kol'

Card 1/1

Card 1/1

USSR/Cultivated Plants. Grains.

Abs Jour : Ref Zhur-Biol., No 15, 1958, 68105

Author : Mulchin, N. D., Sokolova, N. A.
Inst : Belorussian Scientific Research Institute
of Agriculture.
Title : Results of Oat Selection.

Orig Pub : Byul. nauchno-tekhn. inform. Belorussk.
n.-i. in-t zemledeliya, 1957, No 1, 18-20

Abstract : The methods and results of work on oat selection, begun in 1933 at the Belorussian State Selection Station, are given. Data on comparative variety tests in 1952-1955, indicate that the new variety, Beloruskiy 34, submitted for state testing in 1956, gives the best yields and has the best prospects. This variety

Card : 1/2

MUKHIN, N. D.

"On a successful application of the method of transformation from summer-
to winter grain for the purpose of breeding new kinds of wheat."

reported at Conference on Problem of Heredity and Variability, held at
Institute of Genetics, AS USSR, 8-14 Oct 1957
Vestnik AN SSSR, 1958, Vol. 28, No. 1, pp. 127-129 (author Kushner, Kh. F.)

MUKHIN, N.D., kand.sel'skokhozyaystvennykh nauk

Characteristics of plant interrelationship in mixed-planting of soft
and durum wheat. Agrobiologija no.1:139-141 Ja-F '62.

(MIRA 15:3)

1. Belorusskiy nauchno-issledovatel'skiy institut zemledeliya, Minsk.
(Wheat)

SHEMPEL', V.I., akademik, red.; MUKHIN, N.I., kand. sel'khoz. nauk,
red.; RUBANOV, V.S., kand. sel'khoz. nauk, red.; LAZARCHIK, K.,
red.; TIMOSHCHUK, R., tekhn. red.

[For increased yields of groat crops] Za povyshenie uroshai-
nosti krupianykh mal'tur. Minsk, Sel'khozgiz BSSR, 1963. 78 p.
(MIRA 16:5)

1. Minsk. Nauchno-issledovatel'skiy institut zemledeliya.
2. Akademiya nauk Belorusskoy SSR (for Shempel').
(White Russia--Buckwheat) (White Russia--Millet)

MUKHIN, N.D., doktor sel'skokhozyaystvennykh nauk; SEMENOVA, N.Yu.; SOKOLOVA, N.A.

Effect of free intervarietal transpollination on the yield, winter
hardiness and other qualities of winter rye. Agrobiologiya no.4:506-
512 Jl-Ag '64. (MIRA 17:12)

1. Belorusskiy nauchno-issledovatel'skiy institut zemledeliya, g. Minsk.

MUKHIN, N.D., doktor sel'skokhoz. nauk, prof.

Effect of growing conditions and reproduction of seeds on
their productive quality. Agrobiologija no.3:342-346
Mysje '65. (MIRA 18:11)

1. Belorusskiy nauchno-issledovatel'skiy institut zemledeliya,
g. Zhodino, Minskoy oblasti.

MURKIN, N.J.

Permafrost stratum of the Uza and Seyda coal deposits in the
Pechora Basin. Trudy Sov. no.1:25-33 '60. (MIR 14:11)
(Uza Valley--Frozen ground)
(Seyda Valley--Frozen ground)

MUKHIN, N.I.

Role of polygonal relief forms in the development of thermokarst in
the lower Indigirka Valley. Mat. k osn. uch. o merz. zon. zem. kory
no.5:41-55 '60. (MIRA 13:10)
(Indigirka Valley--Frozen ground)

MUKHIN, M.I.

Defining the concept of "Thermokarst." Trudy Inst.merkl.AE
SSSR 16:108-110 '60. (MIRA 13:4)
(Frozen ground)

GRADUSOV, P.I.; MURKIN, N.I.

Use of MMts20-20 alloys in elastic manometer elements. Trudy
Giprosvetmetobrabotka no.18:313-323 '60. (MIRA 13:10)
(Copper-nickel-manganese alloys) (Manometer)

MUKHIN, N.I.; TOLSTOV, A.N.

Some facts about the hydrology of the Yelon' River. Trudy
Inst. merzl. AN SSSR 17:76-77 '61. (MIRA 15:2)
(Berelekh River (Yakutia)--Hydrology)

MUKHIN, N.I.

Role of frost-cracked clefts in the formation of recent relief
in the Bol'shezemel'skaya Tundra. Trudy Inst.merzl.AN SSSR
18:39-46 '62. (MIRA 16:2)

(Bol'shezemel'skaya Tundra—Landforms)
(Bol'shezemel'skaya Tundra—Frozen ground)

L 8792-66 EWT(m)/EWP(j)/EWP(w) EM/RM

ACC NR: AP5028026

SOURCE CODE: UR/0119/65/000/011/0003/0005

AUTHOR: Makarov, M. L. (Engineer)

ORG: Tomsk Scientific Design Bureau for Measures Instruments (Tomskoye SKB
izmeritel'naya priborov)

TITLE: Problem of establishing types and sizes of bonded strain gauges

SOURCE: Priborostroyeniye, no. 11, 1965, 3-5

TOPIC TAGS: strain gauge, bonded strain gauge

ABSTRACT: A new type-and-size classification of bonded strain gauges developed by the Tomsk SKB is presented. Three principal types are recognized: rectangular, rosette, and diaphragm. Each type includes 5 or 4 "subtypes." Structurally, the gauges are based on a 0.04-0.05-mm elastic-lacquer film and a 0.005-0.010-mm constantan "foil." The meaning of representative trademarks

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UDC: 681.3.082.64:621.316.84

Z

L 8792-66

ACC NR: AP5028026

(FKPA-10-100, FKRA-10-100, FKMA-10-100) is explained. The new classification permitted: (1) Reducing a great deal of existing varieties to 3 basic types; (2) Simplifying the process of strain-gauge manufacture; (3) Systematising applications of bonded gauges; (4) Generalizing the measuring characteristics of these gauges. Dimensions, nominal resistances, and tolerances are tabulated for all subtypes. Orig. art. has: 1 figure, 6 formulas, and 1 table.

SUB CODE: 13 / SUBM DATE: 00 / ORIG REF: 003

JW

Card 2/2

L 8793-66 SWT(m)/EWP(w) EM

ACC NR: AP5028034

SOURCE CODE: UR/011S/65/000/011/0026/0027

AUTHOR: Makarov, N. L. (Engineer); Shabalov, Yu. A. (Engineer)

9

B

ORG: Tomsk Special Design Bureau for Measuring Instruments (Tomskoye SKB izmeritel'nykh priborov)

TITLE: Correcting the resistance of bonded strain gauges

SOURCE: Priborostroyeniye, no. 11, 1965, 26-27

TOPIC TAGS: strain gauge, bonded strain gauge

ABSTRACT: The photochemical method of manufacturing bonded ("coil") strain gauges has been responsible for $\pm 20\%$ deviations in their resistance which, in turn, has caused 30—40% rejection of the final product; in the case of multi-element gauges, up to 50% of the product has been rejected. Hence, two resistance-correcting methods have been developed: (1) Introduction of

Cord 1/2

UDC: 621.3.083.8:621.316.9

L 8793-66

ACC NR: AP5028034

resistance-calibrated sections into the gauge pattern; (2) Additional etching of the pattern in order to bring its resistance to a specified value. The first method consisting essentially of short-circuiting a part of the resistance has brought rejection down to 3-5%. The second method permitting an increase of resistance up to 20% has yielded gauge resistances accurate within 1%. Orig. art. has: 2 figures.

SUB CODE: 13 / SUBM DATE: 00

JW
Card 2/2

MURKIN, N. M.

PHASE I BOOK EXPLOITATION

SOV/5303

Nauchno-tehnicheskoye sovetskoye po dempivoranyu kolebaniy.
Kiev, 1958.

Trudy Nauchno-tehnicheskogo soveta po dempivoranyu kolebaniy
Kolebaniy, 17 - 19 dekabrya 1958 g. [Transactions of the Sci-
entific and Technical Conference on the Damping of Vibrations,
Hold 17 - 19 December, 1958] Kiev, Izd-vo AN UkrSSR, 1960.
318 p. 2,000 copies printed.

Sponsoring Agency: Akademija nauk Ukrainskoj SSR. Institut metal-
lozavodni i spetsial'nykh splavov.

Editorial Board: I. N. Prantsevich, G. S. Pisarenko (Resp. Ed.),
G. V. Samsonov, V. V. Grigor'yeva, and A. P. Tatskevich; Ed. of
Publishing House: I. V. Krasina; Tech. Ed.: A. A. Matveychuk.

GOVERNING: The book contains 27 articles dealing with principal re-
sults of theoretical and experimental investigations of energy
dissipation in mechanical vibrations carried out in the Soviet
Union from 1956 to 1958. Problems of energy dissipation in ma-
terials and factors affecting it are discussed. Purposefully
new methods of experimental investigation of damping of vibra-
tions are presented. Attention is given to the recently de-
veloped nonlinear theory of calculating vibrations in
systems, taking energy dissipation into account. Attempts to
analyze internal energy dissipation in materials using methods of
mathematical statistics are discussed. Some articles deal with
engineering problems in dynamics, in which damping is claimed to
play a highly substantial part. Aspirant N. I. Murkin, of the
Kiev Polytechnic Institute, is mentioned. References accompany
some of the articles.

SOV/5303

Prantsevich, V. G. [Candidate of Technical Sciences], On Some Experimental Methods for Studying Energy Dissipation In Vibrating Material	84
Tatskevich, Z. A. A New Method for Determining Charac- ters of Internal Friction	93
Kud'menko, V. A. [Junior Scientific Worker]. Calorimetric Study Method for Energy Dissipation in a Material Subjected to High-Frequency Mechanical Vibrations	97
Khail'chevich, V. V. [Candidate of Technical Sciences]. On the Determination of the Logarithmic Decrement of Damped Vibrations	99
Kud'menko, V. A. On the Determination of True Characteris- tics of Energy Dissipation in a Vibrating Material	103
Moritor, M. V. [Candidate of Technical Sciences]. Effect of the Type of State of Stress on Energy Dissipation in a Vibrating Material	107
Khail'chevich, V. V. On the Effect of the Type of State of Stress on Energy Dissipation in a Material	115
Tatskevich, A. P. [Candidate of Technical Sciences]. On Energy Dissipation in Iron Subjected to Damping Vibrations of Different Types	118
Murkin, N. M. On the Effect of Geometric Dimensions of Dimensions on Energy Dissipation in a Material Vibrating Periodically	123
Tatskevich, A. P. and R. G. Shumilova [Senior Engineer, Insti- tut metallozavodni i spetsial'nykh splavorov AN UkrSSR (Institute of Powder Metallurgy and Special Alloys, Academy of Sciences of UkrSSR)]. Study of the Effect of the Dimensions of Certain Specimens on Logarithmic Decrement of Damping Transversal Vibrations	127

Georg-777

S/124/63/000/002/047/052
D234/D308

AUTHORS: Pisarenko, G.S. and Mukhin, N.M.

TITLE: Investigation of the influence of absolute dimensions of specimens on the logarithmic decrements of damping of free torsional vibrations

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 2, 1963, 63,
abstract 2V523 (In collection: Vopr. rasseyania
energii pri kolebaniyakh uprugikh sistem. Kiev, Gos.
izd-vo tekhn. lit. USSR, 1962, 111-122)

TEXT: Using specimens 8-12 mm in diameter, 120-1000 mm long, made of 45 and 37Kh3A (37KhNZA) steels, of grey cast iron, of J159 (L59) brass and of D16 (D16) duralumin and a special apparatus DM-50 (DM-50) the authors studied the effect of the length of the specimen on the logarithmic decrement of free torsional vibrations. Geometry of conical heads, diameters of the working part, and radii of hollow chamfers were constant in each set of specimens. Only the length was varied. Mechanical working of specimens was

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D234/D308

Investigation of the influence ...

chosen so that the cold hardening of the surface was minimal. The vibrating system was completely isolated from the base during the tests. The principal unit of the mechanical installation, a dynamic pendulum consisting of two massive discs between which the specimen was rigidly fixed, is suspended in a vertical position on a steel wire 3000 mm long and 0.5 mm in diameter. Torsional vibrations were excited by applying equal torques of opposite sign to the discs. After torsion up to a predetermined angle the torques were quickly removed and the free torsional vibrations of the specimen were recorded by ohmic resistance pickups glued to the specimen. The value of the logarithmic decrement for the 45 steel and for grey cast iron decreased by 20% when the length of the specimen was increased by a factor of 2, the stress being 680 kg/cm^2 . When the length is increased by a factor of 4 the decrease of the decrement was 45%; it was still more considerable at higher stresses. The effect of longitudinal dimensions is the sharper the shorter the specimen and the larger its rigidity; it decreases with increasing yielding, i.e. length of the specimen. The effect of longitudinal dimensions on damping is less pronounced for chrome-nickel steel and brass, and is

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Investigation of the influence ...

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D234/D308

totally absent for duralumin. Consequently, materials with considerable mechanical hysteresis are especially sensitive to the effect of longitudinal dimensions, and materials without hysteresis are not affected by variation of length. In several cases the damping ability depends not only on the material but also on structural form of the component, i.e. on its longitudinal dimensions and rigidity. It is recommended to introduce a standard for dimensions of specimens for determining the damping characteristics of materials.

[Abstracter's note: Complete translation]

Card 3/3

SAKADA, Ye.H.; MUKHIN, N.S.; KAPLAN, N.L.; FRIDMAN, M.

Some proposals for improvement in dental prosthesis techniques. Stomatologiya 38 no.5:78 5-6 '99.
(MIRA 13:3)

1. Zaveduyushchiy suboprotesnoy laboratoriye Moskovskogo meditsinskogo stomatologicheskogo instituta.
(DENTAL PROSTHESIS)

MUKHIN, N.S. (Kiev)

Use of asbestos in dental technology. Probl.stom. 6:400-401 '62.
(MIRA 16:3)

(DENTAL PROSTHESIS) (ASBESTOS)

KOS'KOV, B.I.; MUKHIN, N.S.; SMIRNOV, A.A., kand. tekhn. nauk; NIKITIN, V.I., prepodavatel'; KONDRAT'YEVA, N.Ya., kand. tekhn. nauk, prepodavatel'; LOSEV, K.A., dotsent; ZVONKOV, A.P.; KOMAROVSKIY, V.M.; MARCHENKO, S.N., kand. tekhn. nauk

Discussion of an article by B.I. Gerzhuly. Geod. i kart.
(MIRA 17:8)
no.4:28-36 Ap '64.

1. Nachal'nik tekhnicheskogo otdela Moskovskogo gorodskogo tresta geologo-geodezicheskikh i kartograficheskikh rabot (for Kos'kov). 2. Nachal'nik kompleksnogo otdela Moskovskogo otdeleniya TSentral'nogo tresta inzhenerno-stroitel'nykh izy-skaniy (for Mukhin). 3. Nachal'nik geodezicheskoy sluzhby pri Upravlenii glavnogo arkhitektora Voronezha (for Smirnov) 4. Kafedra geodezii Khabarovskogo politekhnicheskogo instituta (for Nitkin). 5. Kafedra kartografii Leningradskogo gosudarstvennogo universiteta (for Kondrat'yeva). 6. Kuybyshevskiy inzherno-stroitel'nyy institut (for Losev). 7. Rukovoditel' sektora Nauchno issledovatel'skogo institut gradostroitel'stva Kiyev (for Marchenko).

MUKHIN, N.V.

Effect of alkali compounds on processes of iron oxide reduction
in the blast furnace. Trudy Ural. politekh. inst. no.105:117-124
'60. (MIRA 14:3)

(Iron-Metallurgy)
(Alkaline earth compounds)

MUKHIN, N.V.

Effect of alkali compounds on processes of softening of the
sinter. Trudy Ural. politekh. inst. no.105:125-128 '60.
(MIRA 14:3)

(Sintering-Testing)
(Alkaline earth compounds)

MUKHIN, N. V.

In cooperation with the operators. Transp. stroi. k4 no.1:4-5
Ja '64. (MIRA 17:8)

1. Nachal'nik Glavnogo upravleniya zheleznyodorozhnego stroitel'-
stva Povolzh'ya i Yuga.

L 37593-65 ENT(d)/EWT(m)/EWP(w)/FA/EVA(d)/EWP(v)/T-2/EWP(k)/EWP(h)/EWP(1)

PF-4 EM

ACCESSION NR: AP5017857

UR/0286/65/000/011/0090/0090

620:178

AUTHOR: Pikalov, V. K.; Gusev, A. G.; Altukhov, V. D.; Kutepov, N. A.
Hemonov, V. I.; Mukhin, N. V.

TITLE: Aerodynamic-load simulator for aircraft components. Class 42
No. 171613

SOURCE: Byulleten' izobreteniya i tovarnykh znakov, no. 11, 1965, 90

TOPIC TAGS: aerodynamic load simulator, test equipment, aerodynamic
load, aircraft aerodynamic load test

ABSTRACT: An Author Certificate has been issued for an aerodynamic-load simulator for testing aircraft components, particularly rudders, ailerons, and landing-gear flaps. The unit consists of a frame with drums and suspension units and a loading system having a cylinder, a beam, cables, and straps. To load a test piece inclined at a large angle, and to simplify the control of the magnitude of the applied simulating force, the shaft holding the frame-suspension units coincides with the test piece's rotation axis. In addition, the frame is mounted on the loading cylinder by a universal joint so that it can rotate.

Cont. 1/3

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ACCESSION NR: AP5017857

connected to the test piece by a system of loading straps and to the beam and loading cylinder by cables running through the drums. Orig. art. has: 1 figure. [LB]

ASSOCIATION: Organizatsiya gosudarstvennogo komiteta po aviateicheskoy tekhnike SSSR (Organization of the State Committee on Aviation-Technology-Soviet Union).

SUBMITTED: 16Jul64 ENCL: 01 SUB CODE: AC,ME

NO REF Sov: 000 OTHER: 000 ATD PRESS: 4041

Card 2/3

SOLDATKIN, M.T., kand. tekhn. nauk, dotsent; MUZHIN, O.A., assistent; ANDREEVSKIY, A.K., tsent; KURPAN, M.I., kand. tekhn. nauk, dotsent; ODEL'SKIY, E.Kh., doktor tekhn. nauk, prof.; ANDREEVSKIY, A.K., kand. tekhn. nauk, dotsent, red.; KONTSEVAYA, T.V., red.; KUZ'MENOK, P.T. tekhn. reds.

[Laboratory exercises in heating, ventilation, and gas supply] Laboratoriya praktikum po otoplcheniiu, ventilatsii i gazosnabzheniiu. Pod obshchim red. E.Kh.Odel'skogo i A.K.Andreevskogo. Minsk, Redaktsionno-izdatel'skii otdel BPI, 1960. 143 p. (MIRA 14:7)

1. Minsk. Belorusskiy politekhnicheskiy institut. Kafedra "Teplogazosnabzheniye i ventilyatsiya."
(Ventilation), (Heating) (Gas—Heating and cooking)

33757
S/055/62/000/001/003/007
D299/D303

16.65⁰⁰

AUTHOR:
TITLE:

Mukhin, O. N.
Some properties of a class of surfaces, nomographable
in single-valued functions
PERIODICAL: Moskva. Universitet. Vestnik. Seriya I. Matematika,
Mekhanika, no. 1, 1962, 24-29

w.
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closed

Card 2,

TEXT: It was shown in the references that the set of functions
 $z = x[\varphi(x) + \psi(y)]$, where φ, ψ and x are continuous functions,
is nowhere dense and closed in the space $C(E^2)$ of continuous func-
tions, defined on the square E^2 . It is proved here that also the
set of all functions which are nomographable in single-valued func-
tions, is nowhere dense and closed in the space $C(E^2)$. The surface
 $z = f(x,y)$, belonging to $C(E^2)$ is called nomographable in single-
valued functions, if its equation in Cartesian coordinates x, y, z
can be written in the form

Card 1/4

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-where dense and
in the present case -

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Some properties of a ...

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states that the surface $z = f_0(x, y)$ cannot be approximated with arbitrary degree of accuracy by surfaces of class A_z . Theorem 1 leads to Theorem 2, which states that the class of surfaces A_z is nowhere dense in the space of surfaces $C(E^2)$. Theorem 3 states that the class A_z of surfaces which are nomographable in single-valued functions, is not closed. Further, surfaces are considered in n -dimensional Euclidean space which are expressed in a Cartesian coordinate system in the form X

$$x_n = f(x_1, x_2, \dots, x_{n-1}), n = 2, 3, \dots,$$

where $f(x_1, \dots, x_{n-1})$ are continuous functions defined on the $(n-1)$ -dimensional cube E^{n-1} ;

Card 3/4 $|x_i| \leq 1, i = 1, 2, \dots, n - 1.$

Some properties of a ...

By definition, the surface

$$x_n = f(x_1, x_2, \dots, x_{n-1}), \quad n = 2, 3, \dots,$$

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of the space $C(E^{n-1})$ belongs to the class A_n , if its equation can be written in the form of a certain determinant, equal to zero. Three more theorems are stated to the effect that class A_n is neither closed nor dense in the space $C(E^{n-1})$, ($n \geq 3$). There are 2 figures and 3 Soviet-bloc references.

ASSOCIATION: Kafedra matematicheskogo analiza (Department of Mathematical Analysis)

SUBMITTED: March 15, 1961

Card 4/4

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Dynamic criterion of the stability of a piping with flowing
liquid. Izv. AN SSSR. Mekh. no.3:154-155 My-Je '65.
(MIRA 18:7)

MUKHIN, O.N.

Stability of a pipeline and some methods for solving nonconservative problems. Vest. Mosk. un. Ser. 1: Mat., mekh. 20 no.2: 76-87 Mr-Ap '65.
(MIRA 18:6)

1. Kafedra teorii uprugosti Moskovskogo universiteta.

MUKHIN, O.V.

Number of intermediate drives for flexible apron conveyers. Nauch.
trudy MI no. 20:125-133 '58. (MIRA 11:8)
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(Mine haulage)

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MUKHIN, P. G. -- "Investigation of the Process of Drying of Seeds of Perennial Grasses." Sub 13 Jun 2, Moscow Inst of Mechanization and Electrification of Agriculture imeni I. M. Molotov. (Dissertation for the Degree of Candidate in Technical Sciences).

30: Vechernaya Moskva, January-December 1952

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seeds. Sel'khozmashina no.2:6-9 F '54. (MERA 7:2)
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MUKHIN, P.G., kandidat tekhnicheskikh nauk.

New machine for hulling seeds of perennial grasses. Sel'khozma-
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(Threshing machines) (Grasses)

MUKHIN, P.G.,

Study of the process of crushing the seeds of perennial grasses.
Trudy MIMESKH 4 no.2:107-121 '59. (MIRA 15:4)
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Certain problems concerning the use of a self-propelled combine in
harvesting the seeds of perennial grasses. Trudy MIMESKH 4 no.2:
122-135 '59. (MIRA 15:4)

(Grasses)

Mukhin P.S.

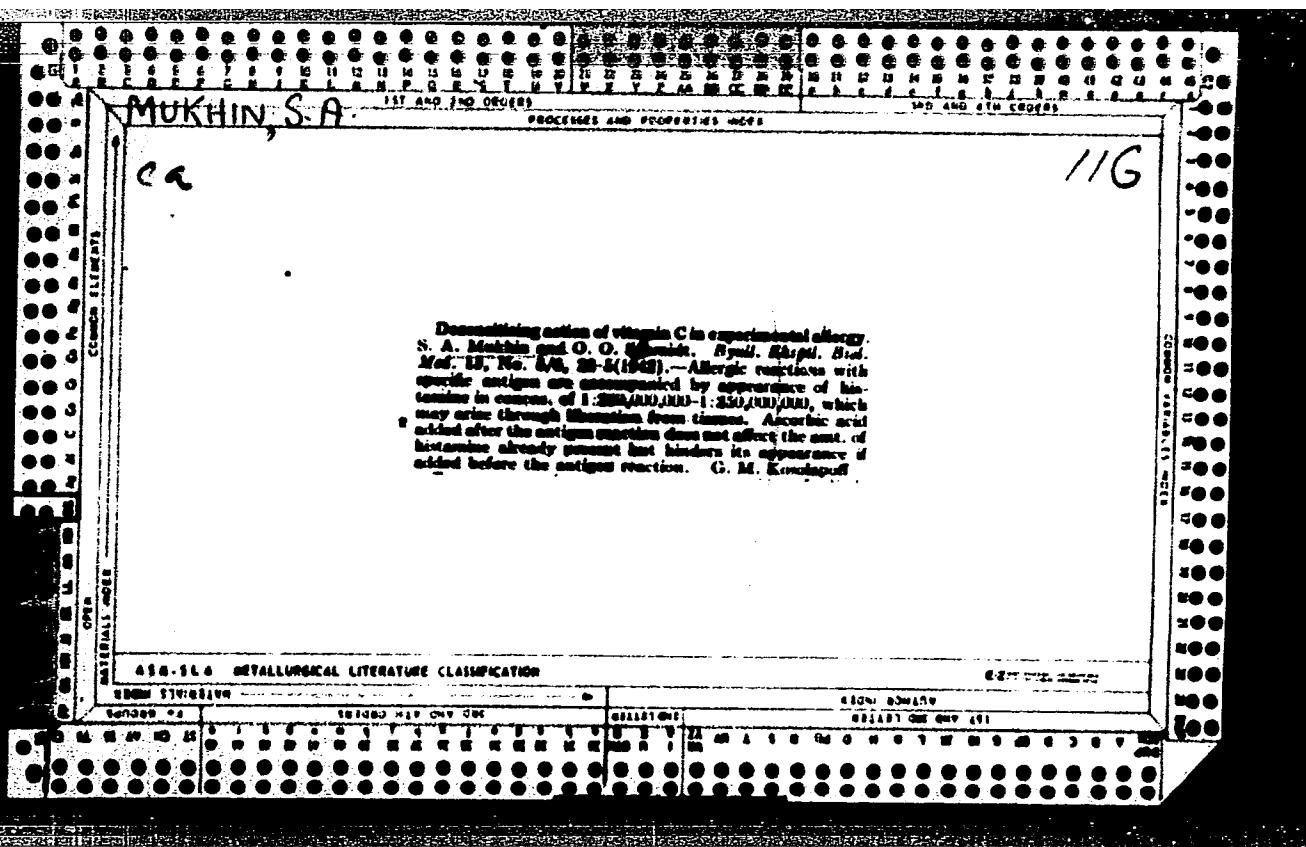
AUTHORS: Mukhin, P.S., and Moskvin, D.P. SOV-19-58-2-81/551

TITLE: Device for Air Chilling of Hollow Steel Work (Ustroystvo dlya vozдушной закалки пустотелых стал'ных изделий)

ABSTRACT: A device for the air-chilling of hollow circular steel work (Registration of Inventions, Class 18c, 170. Nr 109394) made in the form of a small air turbine or a pipe with helical jet tubes placed along it, the jet tube ends bent off at 90° angle.

- 1. Steel structures--Cooling
- 2. Air--Applications
- 3. Turbines--Applications

Card 1/1



MUKHIN, S.A., doktor; RYBAK, V.I., red.

[Some problems in the homeopathic treatment of heart diseases;
a new approach in the treatment of myocardial infarcts]
O nekotorykh voprosakh gomeopaticheskogo lecheniya bolezni
serditsa; o novom podkhode v lechenii infarktov miokarda. Pod
red. V.I.Rybaka. Moskva, Mosk.nauchno-med.ob-vo vrachei-gomeo-
patov, 1961. 41 p. (MIRA 15:4)

1. Starshiy konsul'tant TSentral'noy gomeopaticheskoy polikliniki
Mosoblzdarvotdela (for Mukhin). 2. Predsedatel' Moskovskogo
meditsinskogo obshchestva vrachey-gomesopetov, glavnnyy vrach
TSentral'noy gomeopaticheskoy polikliniki Mosoblzdravotdela
(for Rybak).

(HEART--DISEASES--HOMEOPATHIC TREATMENT)
(HEART--INFARCTION)